

Amendments to the Claims:

The following listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A honeycomb structure comprising:
a plurality of through channels separated by porous partition walls and
extending in an axial direction of the honeycomb ~~structure;~~structure,
wherein all of said through channels have plugging portions, respectively that
plug alternately at either one end of the honeycomb structure or its opposite end in a
checkered flag pattern, and
wherein at least one slit per through channel is formed in the vicinity of the
plugging portion of the partition walls surrounding the respective through ~~channels;~~channels,
each slit having a width-to-length ratio of at least 1:2.
2. (Original) The honeycomb structure according to claim 1, wherein said at
least one slit is linearly formed in an axial direction to which the through channels extend.
3. (Currently Amended) The honeycomb structure according to claim 1, wherein
a width of each slit is in a range ~~of from~~ of 0.2 to 1 mm, and a length of ~~the each slit is~~ is from 1
mm ~~or more but is not longer than~~ to a length which ~~is is the~~ is the shorter ~~of (a) between~~ of (a)
and (b) 1/2 of a length of the honeycomb structure.
4. (Currently Amended) The honeycomb structure according to claim 1, wherein
a width of ~~the each~~ each slit is in a range ~~of of from~~ of 0.4 to 0.8 mm, and a length of ~~the each~~ each slit is
is from 2 mm ~~or more but is not longer than~~ to a length which ~~is is the~~ is the shorter ~~between of (a)~~
15mm and or (b) 1/4 of a length of the honeycomb structure.
5. (Original) The honeycomb structure according to claim 1, wherein the number
of slits per through channel in the vicinity of an outer peripheral portion is larger than that
located in a central portion from a peripheral side of the honeycomb structure.

6. (Original) The honeycomb structure according to claim 1, wherein the length of the slit in the vicinity of the outer peripheral portion is longer than that located in a central portion from a peripheral side of the honeycomb structure.

7. (Original) The honeycomb structure according to claim 1, wherein the width of the slit in the vicinity of the outer peripheral portion is wider than that located in a central portion from a peripheral side of the honeycomb structure.

8. (Original) The honeycomb structure according to claim 1, wherein the width of the slits varies from slit to slit.

9. (Currently Amended) The honeycomb structure according to claim 1, wherein an ~~oxide-oxidation~~ catalyst is carried on at least in the vicinity of the slits.

10. (Currently Amended) The honeycomb structure according to claim 1, whose partition walls have ~~filterability~~ filterability,

wherein the honeycomb structure, when used as a filter, and which is used as a filter for trapping/collecting/removing filters particulate materials included in a dust-containing fluid ~~such as exhaust gas of an internal combustion engine~~ fluid.

11. (Currently Amended) The honeycomb structure according to claim 1, wherein a sectional shape of the through channel is one of triangular, quadrangular, hexagonal, or circular.

12. (Currently Amended) The honeycomb structure according to claim 1, wherein a major crystal phase of the honeycomb structure is made of ~~either one of~~ cordierite, silicon carbide, silicon nitride, alumina, mullite, or ~~LAS~~ lithium aluminum silicate (LAS).

13. (Withdrawn-Currently Amended) A method for manufacturing a honeycomb structure comprising a plurality of through channels separated by porous partition walls and extending in an axial direction of the honeycomb ~~structure~~ structure, wherein all of said through channels have plugging portions, respectively that plug alternately at either one end

of the honeycomb structure or ~~its~~ at an opposite end of the honeycomb structure in a checkered flag pattern, and wherein at least one slit per through channel is formed in the vicinity of the plugging portion of the partition walls surrounding the respective through ~~channels,~~ channels, each slit having a width-to-length ratio of at least 1:2, which method comprises the step of:

jetting a fluid onto a honeycomb structure to form at least one slit per through channel in the vicinity of the plugging portions of the partition walls before or after firing a green honeycomb structure.

14. (Withdrawn-Currently Amended) The method according to claim 13, wherein the fluid is ~~either~~ one of compressed air, water vapor, or water.

15. (Withdrawn-Currently Amended) A method for manufacturing a honeycomb structure comprising a plurality of through channels separated by porous partition walls and extending in an axial direction of the honeycomb ~~structure;~~ structure, wherein all of said through channels have plugging portions, respectively that plug alternately at either one end of the honeycomb structure or its opposite end in a checkered flag pattern, and wherein at least one slit per through channel is formed in the vicinity of the plugging portion of the partition walls surrounding the respective through channels, which method comprises the step of:

irradiating a honeycomb structure with a laser beam to form at least one slit per through channel in the vicinity of the plugging portions of the partition walls.

16. (Currently Amended) An exhaust gas purification system for ~~trapping/collecting/removing~~ filtering particulate materials containing carbon as a major component in a dust-containing ~~fluid such as exhaust gas of an internal combustion engine,~~ fluid, the system comprising:

a honeycomb structure comprising a plurality of through channels separated by porous partition walls and extending in an axial direction of the honeycomb structure; ~~structure~~, wherein all of said through channels have plugging portions, respectively that plug alternately at either one end of the honeycomb structure or its opposite end in a checkered flag pattern, and wherein at least one slit per through channel is formed in the vicinity of the plugging portion of the partition walls surrounding the respective through channels, for use as a filter for ~~trapping/collecting~~ filtering the particulate materials; and heating means for burning the particulate materials ~~trapped/collected~~ filtered by the honeycomb structure to regenerate a filterability,

wherein said at least one slit per through channel of the honeycomb structure are closed by deposition of the ~~trapped/collected~~ filtered particulate materials, the slits having been closed are open by burning the particulate materials deposited with a heat at time of regeneration treatment thereof, and at least some of non-burnable materials ~~such as ashes~~ deposited in the honeycomb structure are discharged from the honeycomb structure by a flow of the dust-containing fluid at a time when slits are reopened.

17. (Currently Amended) The exhaust gas purification system according to claim 16, wherein the heating means is ~~either~~ one of an electric heater, a burner using a gas or liquid fuel, a microwave generation apparatus, or heating means for ~~rising~~ raising an exhaust gas temperature ~~with~~ by burning discharged non-burnt fuel components in the exhaust gas of an internal combustion engine with an aid of a catalyst reaction.

18. (New) The honeycomb structure according to claim 10, wherein the dust-containing fluid is an exhaust gas of an internal combustion engine in communication with the honeycomb structure.

19. (New) The honeycomb structure according to claim 16, wherein the dust-containing fluid is an exhaust gas of an internal combustion engine in communication with the honeycomb structure.

20. (New) An exhaust gas purification system according to claim 16, wherein the non-burnable materials are ashes.